

Title (en)
8-CYANOQUINOLONECARBOXYLIC ACID DERIVATIVE

Title (de)
8-CYANOCHINOLONCARBONSÄUREDERIVAT

Title (fr)
DERIVE D'ACIDE 8-CYANOQUINOLONE-CARBOXYLIQUE

Publication
EP 1669354 B1 20130320 (EN)

Application
EP 04788328 A 20040929

Priority
• JP 2004014262 W 20040929
• JP 2003336864 A 20030929

Abstract (en)
[origin: EP1669354A1] To provide a quinolone antibacterial drug and a therapeutic agent for infectious diseases, which exhibit potent antibacterial activity on Gram-positive and Gram-negative bacteria and which is highly safe. A compound represented by the following formula (1): (wherein R 1 represents a C3-C6 cycloalkyl group which may have a substituent or the like; R 2 represents a hydrogen atom or the like; R 3 and R 4 each independently represent a hydrogen atom or a C1-C6 alkyl group, or a substituted carboxyl group derived from an amino acid, a dipeptide, or a tripeptide, and, in the case where each of R 3 and R 4 represents a C1-C6 alkyl group, the alkyl group may be substituted by one or more atoms or groups selected from among a hydroxyl group, a halogen atom, a C1-C6 alkylthio group, and a C1-C6 alkoxy group; and n denotes an integer of 1 to 3), a salt thereof, and a hydrate of the compound or the salt. Also, antibacterial drugs and therapeutic agents for infectious diseases are prepared.

IPC 8 full level
A61K 31/4709 (2006.01); **A61P 31/04** (2006.01); **C07D 215/233** (2006.01); **C07D 215/22** (2006.01)

CPC (source: EP US)
A61K 31/4709 (2013.01 - EP US); **A61P 31/04** (2017.12 - EP); **C07D 215/233** (2013.01 - EP US); **Y02A 50/30** (2017.12 - EP US)

Citation (examination)
SANCHEZ J P ET AL: "QUINOLONE ANTIBACTERIAL AGENTS. SYNTHESIS AND STRUCTURE-ACTIVITY RELATIONSHIPS OF A SERIES OF AMINO ACID PRODRUGS OF RACEMIC AND CHIRAL 7-(3-AMINO-1-PYRROLIDINYL 3/4 QUINOLONES, HIGHLY SOLUBLE QUINOLONE PRODRUGS WITH IN VIVO PSEUDOMONAS ACTIVITY", JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, US, vol. 35, no. 10, 15 May 1992 (1992-05-15), pages 1764 - 1773, XP001026653, ISSN: 0022-2623, DOI: 10.1021/JM00088A011

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